CLAIMS

We claim:

1. A method for monitoring a computer application, comprising:

adjustably tuning performance evaluation bias between processor and memory consumption; and

responsive to said bias, monitoring performance of said computer application with respect to transaction time parameters.

2. The method of claim 1, further comprising:

receiving from a user a first tuning parameter for allocating memory for said monitoring performance.

3. The method of claim 1, further comprising:

receiving from a user a first tuning parameter for allocating memory for said monitoring performance and a

second tuning parameter for specifying time out for in-flight units of work.

4. The method of claim 2, further comprising:

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions table for storing time statistics for completed transactions;

receiving from said computer application a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record; and

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing said in-flight transaction cell from said in-flight transaction cells chain.

5. The method of claim 3, further comprising

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight

transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions table for storing time statistics for completed transactions;

receiving from said computer application a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record;

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing said in-flight transaction cell from said in-flight transaction cells chain; and

determining responsive to said second tuning parameter if a selected unit of work being accumulated in a selected in-flight transaction cell has timed out, and if so removing from said selected in-flight transaction cell from said in-flight transaction cell chain and selectively updating said completed transactions table with timing statistics for said selected unit of work.

6. A system for monitoring a computer application, comprising:

a first user actuated tuning knob for allocating space

in memory for performance monitoring;

a second user actuated tuning knob for a specifying time out value for in-flight units of work; and

a transaction monitor responsive to said first and second user actuated tuning knobs for accumulating in synonym chain cells in said space timing statistics for a plurality of said in-flight units of work.

7. The system of claim 6, further comprising:

said memory including an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

said in-flight transaction cells for accumulating time statistics for in-flight transactions;

said memory including a completed transactions table for storing time statistics for completed transactions;

a monitor for receiving from said computer application a transaction log record for a unit of work;

said monitor hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

said monitor for searching said in-flight transaction cells chain for said unit of work;

said monitor further responsive to finding said unit of work in said in-flight transaction cells chain for capturing to said in-flight transaction cell timing statistics from said transaction log record;

said monitor further responsive to not finding said unit of work in said in-flight transaction cells chain for chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record;

said monitor further for determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing

said in-flight transaction cell from said in-flight transaction cells chain; and

said monitor further for determining responsive to said second tuning knob if a selected unit of work being accumulated in a selected in-flight transaction cell has timed out, and if so removing from said selected in-flight transaction cell from said in-flight transaction cell chain and selectively updating said completed transactions table with timing statistics for said selected unit of work.

8. A program storage device readable by a machine, tangibly embodying a program of instructions executable by a machine to perform method steps for monitoring a computer application, said method comprising:

adjustably tuning performance evaluation bias between processor and memory consumption; and

responsive to said bias, monitoring performance of said computer application with respect to transaction time parameters.

9. The program storage device of claim 8, said method further comprising:

receiving from a user a first tuning parameter for allocating memory for said monitoring performance.

10. The program storage device of claim 8, said method further comprising:

receiving from a user a first tuning parameter for allocating memory for said monitoring performance and a second tuning parameter for specifying time out for in-flight units of work.

11. The program storage device of claim 9, said method further comprising:

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions table for storing time statistics for completed transactions;

receiving from said computer application a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics

from said transaction log record; and

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing said in-flight transaction cell from said in-flight transaction cells chain.

12. The program storage device of claim 10, said method further comprising

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions table for storing time statistics for completed transactions;

receiving from said computer application a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record;

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing said in-flight transaction cell from said in-flight transaction cells chain; and

determining responsive to said second tuning parameter if a selected unit of work being accumulated in a selected in-flight transaction cell has timed out, and if so removing from said selected in-flight transaction cell from said in-flight transaction cell chain and selectively updating said completed transactions table with timing statistics for said selected unit of work.

13. A computer program product for monitoring a computer application according to the method comprising:

adjustably tuning performance evaluation bias between processor and memory consumption; and

responsive to said bias, monitoring performance of said computer application with respect to transaction time parameters.